

SubXero Team Meeting Minutes

EP 103 @ 4:00pm

9-18-2014

Upcoming Dates:

- Sep 21 - Robsub Club meeting at WSU at 1 pm in Dana 3
- Sep 26 - Client interview due
- Oct 3 – Workshop 1 and transcript of client interview
- Oct 6 – Logbook review
- Oct 19 – Snapshot (project should be well defined by this date)

Team Assignments:

- Portfolio will be kept by Cameron
- Budget will be done by Michael
- Client contact will be done by Chet
- Bblearn calendar will be done by Cody

Client interview:

- Client interview should consist of Haily Holt and team leads if possible
- Interview will be somewhat informal due to the nature of our team
- Team members will talk with Haily tonight at WSU naming ceremony to set up interview time

List of potential interview questions (Google Doc):

- What are sub strong suits/weaknesses?
- Motor or pneumatic claws?
- Course obstacles to be avoided?
- Target weight?
- Can we move things around? Space out for better balance?
- What are the AI plans?

Data matrix ideas(Google Doc):

- Top speed
- Cruising speed
- Battery life
- Max depth
- Controls
- Z direction
- Stability
- Weight
- Response time
- Looks
- Armor for sensitive components

Tasks for this week:

- Everyone needs to create Bblearn calendar and send link to Cody
- Shop certification will be scheduled once everyone uploads bblearn calendar.
- Brainstorm a list of items to add to Google Docs lists (Data matrix, Interview questions)
- Good logbook entry of project learning

Extra Notes:

- Chris Pratt (former ME lead) is available for questions

- Email - prat2932@vandals.uidaho.edu
- Skype name – [chris.pratt.topher](#)
- Sam (mentor)
- Contact 208-907-0919

9-25-2014

Meeting Minutes

Attendance:

Whole team, Mentor, Instructor

Important Dates:

- Shop training 3:20 next Thursday Oct 2nd
- ME meeting time Tuesday morning @ 10:00am
- Oct 6 Logbook review
- Oct 11 project proposals in front of WSU group meeting
- Dec 1st purchase order lists are due

WSU meeting last Sunday:

- Chet is to submit an ME? progress report every week to Haily
- Each team is to give an outline of project goals for the year.
- Haily started a marketing team for Robosub with intent to look for sponsors
- Haily gave deadline: Oct 11th to present projects for year.
- Pool test will change this year. Each group will have their own pool time.

Sign-up in mid Oct

Member responsibilities:

Chet - Agenda, WSU rep

Cameron -

Cody - TBD

Micheal -

Woovin -

Jeff -

Sean -

Portfolio:

- Will be divided into team sections within categories. Ex. Project learning divided into ME, EE, CS
- Print and add project learning items to portfolio

Week Assignments:

- Project Learning
- Shop Training next Tuesday

Team Meeting

10/9/2014

Attendance:

Chet, Cody, Woovin, Michael, Jeff, Sean, Cameron, Dr. Riley

Dr. Riley - Logbook info session:

- Cross off blank spots on page
- Update table of contents

Important Dates:

- Oct 14 Snapshot
- Oct 17 BBQ at WSU (info to come)
- Oct 31 wiki page Updates due

Snapshot:

- Next Tuesday at 3:30 in Power Lab
- Poster coming from WSU - Chet will pick up
- Team Photo before Snapshot on Tuesday at 3:00
- Metrics Matrix (on Google Drive)

Tasks this week:

- Personal bio of each team member - Update on Google Doc by next Tuesday

Individual Assignments:

Michael:

- Google Doc for bios
- Team Logo

Sean/Jeff:

- Add AI section to Metrics Matrix

Meeting Minutes

10/16/2014

Attendance: Cameron, Woovin, Jeff, Sean, Cody, Michael, Chet, Dr. Riley

Upcoming Deadlines:

- Oct 28th Wiki help by appointment
- Oct 31st **DUE:** Mid-Semester Wiki-page
- Nov 10th **DUE:** Logbook Review #2

Progress Update:

Hydrophone mount is almost complete, just need to buy aluminium
CS is setting up a weekly AI meeting with WSU on Tuesdays

Snapshot feedback:

In the future need to send a photo/info of snapshot poster to Mike (NAVSEA Sponsor)

Weekly Tasking:

Need to buy filament for 3D printer

Michael is going to contact WSU budget people about funding

All team members need to update bios on Wikipage

Notes:

WSU meeting Sat at 1:00

Meeting Minutes

Oct 23, 2014

Attendance:

Cameron, Chet, Woovin, Michael, Jeff, Sean, Dr Riley

Approaching Deadlines

- Oct 28th Wiki help by appointment
- Oct 31st **DUE:** Mid-Semester Wiki-page
- Nov 10th **DUE:** Logbook Review #2
- Nov 21st pool test

Info Sharing:

- Mike at Navsea would like to see any progress made on the sub. Send stuff to Chet who will forward.
- Cornell will be hosting webinars (good to see what the competition is up to and get ideas)

Progress:

- Chet is researching pneumatic actuators
- Jeff is working on making the robosub cross platform
- Sean is working on coding a part of the sub
- Cameron is working on PCB redesign

Weekly Assignments:

- MEs need to setup completion dates to try and get things done before end of year.
- Michael will develop a chart to bring to next ME meeting
- Need to find out about camera purchase deadline to model the enclosure
- Michael will be modeling a Robosub stand with axis rotation (possible case stand combo)
- Wiki page bio needs to be done within the week and put on google doc Jeff will create

Meeting Minutes

10/30/2014

Attendance:

Cameron, Sean, Michael, Woovin, Chet, Cody, Dr. Riley, Sam

Upcoming Deadlines:

- Nov 3rd **DUE:** Mid-Semester Wiki-page
- Nov 10th **DUE:** Logbook Review #2
- Nov 12th Pool test at WSU
- Nov 3-21 **DUE:** Design review (w/client and lead instructor)
- Nov 21st **DUE:** Team member citizenship form to lead instructor by COB

Wikipage:

- Updated Bios
- Updated project description
- Cleaned up format of page

Progress Update:

- Camera bracket reconstruction finished
- Wikipage bios to be completed Today
- Responsibilities and Progress
 - EE
 - PCB rework
 - CS update
 -
 - ME Update
 - Claw designs and designated dimensions

Weekly Tasking:

Notes:

- Bring items to add to portfolio (drawings, specs, code, project learning)
- Action Register added to Google drive

Meeting Minutes

11-6-2014

Attendance:

Chet, Cameron, Michael, Woovin, Jeff, Sean, Cody, Dr. Riley

Upcoming Dates:

- Logbooks dues by end of day next Wend 12th
- Need to attend at least two other design reviews

Updates:

ME:

- Sub stand – Initial design done, looking for approval by next Tuesday.
- Claws – Reworking designs
- Battery Tube – design done, will be pricing parts

CS:

- Will have something to test by the pool test
- Has nice calibration library to make adjustments
- Finished camera calibration program

EE:

- Finished the PCB redesign
- Will start working on LED feedback

Design Review:

Break up into 3 sections, ME, CS, EE. Look at design review form about how to come up with info to present. Each section makes their own info session and will present in Design review session.

Weekly tasking:

- Come up with design review slides for the presentation.
- Keep in mind of changes to Wiki. (update bios, rework projects)
- Chet: Schedule Design review with Haily. Email Dr. Byerline about time of our design review so he can attend
- Woovin: Talk to Haley about sub stand funding
- Michael: Get budget info from Haily

Meeting Minutes 11-13-2014

Attendance:

Cameron, Chet, Cody, Woovin, Michael, Dr Riley

Progress Updates:

CS: Gui updating

EE: PCB creation of power cutoff circuit

ME: designing new parts

Design Review:

Possible next Tuesday at 4:00 or 5:00 or 6:00

Meet after WSU meeting on Sat.

Reference presentation outline Chet made

Each team will present projects

Michael - camera, sub stand

Cody - claw

Chet - bottom claw

Woovin - Marker dropper, solenoids/pneumatics

Cameron - PCBs

Budgeting:

Molly is holding back funds until WSU gives UI money. Michael emailed a guy who will hopefully clear up the mess.

Approaching Deadlines:

- Nov 3-21 **DUE:** Design review (w/client and lead instructor)
 - EE, CS, ME presentation update
 - what do we have so far?
 - decide upon date
 - Waiting for everyone to fill out the poll

Possible Dates Include:

11/19/14 @ 4, 5, or 6pm

- Nov 21st **DUE:** Team member citizenship form to lead instructor by COB

Weekly Tasking:

Design Review Presentation

Meeting Minutes

11/20/2014

Attendance:

Cameron, Chet, Cody, Woovin, Michael, Jeff, Sean, Dr Riley

Approaching Deadlines:

- Nov 21st **DUE:** Team member citizenship form to lead instructor by COB
- Dec 2nd: GENERAL SESSION #11 - Snapshot Prep, Semester Deliverables (**AgSci 106**)
- Dec 5th: GENERAL SESSION #12 - **Snapshot Day #2 (GJ Lab 8:30-10:20)**

Project Updates:

ME:

Finished adding the claw design to the bottom of the sub.

Budgeting - In the clear to start purchasing. Michael will get final numbers from WSU.

Be frugal so we have money left for San Diego trip.

CS:

Planning meeting with WSU team.

Jeff will begin working on Dustin Crossman project.

Sean working on stereoscopic system

AI will kick off as soon as grapevine is done

EE:

Working on power cutoff switch

Notes:

Meet up after class on the Tuesday we get back.

Keep working on the Wikipage (add pics)

Meeting Minutes

12-4-2014

Attendance:

Cameron, Chet, Cody, Woovin, Michael, Jeff, Sean, Dr Riley

Approaching Deadlines:

- Snapshot tomorrow
- Wikipage Review 3:30
- End of semester deliverables:
- Logbook
- Project Portfolio
- By Sunday night have a change made to the wikipage. Email Chet to let him know that the change has been made.

Progress Updates:

ME:

Sub stand modeling is done minus the calculations. Ready to order parts next tuesday

CS:

Looking into a controlled environment testing
working on the AI modeling stuff

EE:

Reworking PBCs

Notes:

- Last meeting for WSU this Saturday at 1:00pm
- Snapshot this Friday - poster should be finished by end of meeting.
- Wikipage review next Tuesday.

Meeting Minutes

12-11-2014

Attendance: Cameron, Chet, Jeff, Sean, Woovin, Cody, Micheal, Dr Riley, Gary

Approaching Deadlines:

- Dec 12th: Final day of 1st semester

COURSE DELIVERABLES:

- Project Portfolio (submitted to lead instructor)
- Wikipage (with notification to lead instructor and Dr. Beyerlein)

Progress Updates:

ME:

Printing off the drawings and finalized bottom claw stuff.

CS:

Got program stuff working

EE:

Finishing up PCB stuff

Project Portfolio:

Will be adding CS pictures and ME drawings

Weekly Tasking

- Everyone:
 - Portfolio additions as discussed during meeting
 - Woovin put into action register if applicable

Notes:

Anything that should be brought up with leads at WSU during officers meeting?

Cody - get price for componet to Michael by next week so he can get ordered.

Meeting Minutes

1-22-2015

Attendance: Cameron, Chet, Jeff, Sean, Woovin, Cody, Micheal, Tyler, Craig, Sam, Dr Riley

Approaching Deadlines:

- Feb. 3-14th: Assign date and time for Design Review with Haily and Matt
- Feb. 17th: Logbook due with review form to lead instructor

Progress Updates:

ME:

Working on waterproofing housing. Powder coating of the components.
Sub stand parts are ordered. Almost done getting rest of parts

CS:

Working on movement

EE:

Working on finalizing all of the boards

Detailed Design Review:

Tentatively scheduled for Thursday Feb 12th. 324A (ME conf Room)

Weekly Tasking:

Notes:

Next week we will be starting PowerPoint construction

Meeting Minutes

1-29-2015

Attendance: Cameron, Chet, Jeff, Sean, Woovin, Cody, Tyler, Craig, Dr Riley

Approaching Deadlines:

- Feb. 4th: NAVSEA Sponsor will be on campus for tour. Meet at 2:30
- Feb. 12th: Detailed Design Review with Haily and Dr. Riley (4:00 pm NIATT conf room)
- Feb. 17th: Logbook due with review form to lead instructor

Progress Updates:

ME:

BOM ready for camera
Working on actuators for marker droppers
Working on getting stuff ordered and machine time scheduled to build

CS:

Working on State logic plan
Working on fuzzy logic stuff - dejunking
New guys are learning

EE:

Worked with EE team at WSU to complete almost all of the PCBs.
Power cut-off, Actuation board, Uart board, Sensor board.

Detailed Design Review:

- Thursday Feb 12th. (NIATT conf Room at 4:30pm)

Weekly Tasking:

- Slides for Design Review by next Wed

Notes:

- Team Picture at WSU Jan 31st 1:00pm - business casual
- Need to add Tyer and Craig to Team contract
- U of I team picture after Detailed Design Review

Meeting Minutes

SubXERO Team meeting

2-5-2015

Attendance: Cameron, Chet, Michael, Cody, Sean, Jeff, Tyler, Dr. Riley

Progress Update

- Group updates
 - Computer Science
Working on Fuzzy logic module
 - Electrical Engineering
BOM
PCB work
 - Mechanical Engineering
Getting parts on order

Detailed Design Review

Meet next Tuesday at 3:30 in EP to finish PPT
Review will be next Thursday at 4:30pm in NIATT

- CS/EE/ME
What we still have left to do:

Design Expo Organization

- Deadline: March 6th
- uidaho.edu/engr/expo/expo-students

Approaching Deadlines

- Feb. 12th: Detailed Design Review (Thursday, 4:00pm in the NIATT conference room)
- Feb. 25th: Logbook due with review form to Dr Riley
- March 10th is Snapshot

Meeting Minutes
2-12-2015

Detailed Design Review

- NIATT Conference Room 4:30 pm
- All team members present

Meeting Minutes

SubXERO Team meeting

2-19-2015

Attendance: Cameron, Chet, Woovin, Jeff, Cody, Sean, Sam, Tyler, Craig

Progress Update

- Group updates

- Computer Science

Working on Fuzzy logic. Craig doing modeling. Establishing

- Electrical Engineering

Working on microcontroller code.

- Mechanical Engineering

Cutt down a lot of weight. Working on camera housing this week. Sub frame almost done. Reorganizing sub layout.

Design Expo Organization

- Deadline: March 6th
- uidaho.edu/engr/expo/expo-student

Approaching Deadlines

- Feb. 25th: Logbook due with review form to Dr Riley
- Design Expo registration
- March 10th is Snapshot

Meeting Minutes

2-26-2015

Attendance: Cameron, Chet, Sean, Woovin, Cody, Tyler, Craig, Dr Riley

Approaching Deadlines:

- team citizenship due march 5th
- Pool test march 8th
- Snapshot march 10
- Team portfolio March 10

Progress Updates:

ME:

Building lots of stuff

CS:

Documentation

Working on fuzzy logic stuff

EE:

Microcontroller code.

Weekly Tasking:

- Prepare for snapshot

Notes:

- team portfolio
- Wiki page

-Meeting Minutes-

SubXERO Team meeting

3-5-2015

Progress Update

- Group updates
 - Computer Science
 - Working on fuzzy logic
 - Electrical Engineering
 - Microcontroller code libraries and organization. Soldering components
 - Mechanical Engineering
 - Building sub stand and other componets
- Responsibilities and Progress
 - Mid-Semester Snapshot coming up (3/10 during class)
 - Meet on Monday at 5:30 to work on poster
 - Team portfolio due
 - Bring portfolio items to Snapshot
 - Wiki-page
 - Try and add something this week

Approaching Deadlines

Weekly Tasking

- Update wiki-page
- Prep Snapshot
- Update Portfolio

Special Notes

- Pool test Sunday March 8th

-Meeting Minutes-

SubXERO Team meeting

3-26-2015

Progress Update

- Group updates
 - Computer Science
 - Working on fuzzy logic
 - Electrical Engineering
 - Microcontroller code libraries and organization. Soldering microcontroller test board
 - Mechanical Engineering
 - Building sub stand and other componets

Responsibilities and Progress

- Wiki-page
 - Try and add something this week

Approaching Deadlines

- Logbooks will be due Wednesday the 8th of April to Dr. Riley

Weekly Tasking

- Update wiki-page - Email Chet by Sunday with Wiki update
- Prep Snapshot
- Update Portfolio

Special Notes

- Pool test Saturday March 28th 3:00 - 5:00
- General Meeting Sunday 1:00

-Meeting Minutes-

SubXERO Team meeting

4-2-2015

Attendance: Cameron, Woovin, Craig, Sean, Jeff, Tyler, Chet, Cody, Michael, Dr Riley

Approaching Deadlines

- April 7th: Logbooks due w/review form
- April 12th: Pool Test (3-5pm)
- April 18th: 3 page rough draft of each group's journal paper

Progress Update

- Group updates
 - Computer Science
 - Progress on stuff right before pool test. Basically done with movement
 - Electrical Engineering
 - Microcontroller documentation
 - Mechanical Engineering
 - The internal hull is almost complete
 - camera housings are almost complete
 - marker droppers and pneumatic housing will be done by next week
 - Buoyancy tests
- Responsibilities and Progress
 - Wiki-page
 - Got a thumbs up at the wiki review (3/31) but we need to make one change
 - Our naming convention is wrong for images - Need to go back in and save under new name (2014_Robosub_filename.extension)
 - Design Journal rough draft
 - 3 pages on design decisions and what has changed from last year
 - Be thinking about your contributions and how you can add to the paper

-Meeting Minutes-

SubXERO Team meeting

4-9-2015

Attendance: Cameron, Woovin, Craig, Sean, Jeff, Tyler, Chet, Cody, Michael, Dr Riley

Approaching Deadline

- April 12th: Pool Test (3-5pm)
- No meeting next week at WSU cuz Mom's weekend
- April 18th: 3 page rough draft of each group's journal paper
- April 21st: General Meeting covering Expo Poster
- May 1st: Booth Display/Poster at Expo + Technical Presentation at expo

Progress Update

- Group updates
 - Computer Science
 - communication is in flux.
 - Will be redesigning message formats.
 - Effects of thrusters on movements
 - Electrical Engineering
 - Lots of soldering done at WSU
 - Microcontroller test board
 - Microcontroller documentation
 - Mechanical Engineering
 - Finished camera mounts
 - finished gasget for pressure vessel
 - market droppers are done
- Responsibilities and Progress
 - Wiki Page Edits
 - Our naming convention is wrong for images - Need to go back in and save under new name (2014_Robosub_filename.extension)
 - Design Journal rough draft
 - 3 pages on design decisions and what has changed from last year
 - Be thinking about your contributions and how you can add to the paper

Meeting Minutes 4-16-2015

Attendance: Cameron, Woovin, Craig, Sean, Jeff, Tyler, Chet, Michael, Dr Riley

Progress Updates

- Group updates
 - Computer Science
 - Pool test communication needs work. Sorting out computer bugs. Only getting a couple axis updates from the sub.
 - Electrical Engineering
 - Will be working on microcontroller code in the coming days.
 - Mechanical Engineering
 - pneumatic housing is being worked on. The anodizing is finished and will be picked up. Will be testing pressure vessel and camera housing.
- Responsibilities and Progress
 - Design Journal rough draft 3 pages
 - Due this Saturday
 - Next Class session: Tuesday April 21st (Next week)
 - Expo Prep, Project Posters, Course Deliverables
 - Mike Kapus (our NAVSEA mentor) will be visiting next Thursday between 3:30-4:30 pm
 - He's going to meet the team and be shown around campus a little
 - Banquet dinner at WSU 04/23 (same day Mike visits)
 - Robosub may be recognized during said banquet
 - Free dinner
 - if you wish to attend please go onto the facebook page and fill out the necessary forms or contact Haily and let her know you'll be joining them
- Notes:
 - Preliminary presentation at Expo is from 11:00 to 11:20 on May 1st.
 - The Poster needs to be to the print shop by next Friday.

Meeting Minutes 4-23-2015

Attendance: Cameron, Woovin, Craig, Sean, Jeff, Tyler, Chet, Michael, Mike Kapus

Progress Update

- Computer Science
 - Working on communication. Bugs have been worked out and looking good.
- Electrical Engineering
 - PCBs are finished and testing has gone well. Motherboard is coming in next week and will bring everything together.
- Mechanical Engineering
 - Marker droppers will be reprinted this week.
 - Pneumatics will be assembled.

Responsibilities and Progress

- EXPO Prep
 - Finish poster - Assign meeting time (Tomorrow at 3:30)
 - Tuesday at 3:30 meet in ME spot for Expo Prep
 - Presentation Time is from 11:00 - 11:20:
 - What do we want to include in our booth?
 - Video of sub in operation
 - Sub on display
 - Computer Science/Visual presentation (3D map of competition pool)
 - Work on technical presentation - Assign meeting time (Next Mon/Tue)
 - Speakers: Chet + Jeff
 - Banquet dinner tonight at WSU

Approaching Deadlines

- April 25th: Final Pool Test/Meeting
Michael will attend on behalf of ME team
- May 1st: Booth Display/Poster at Expo + Technical Presentation at expo